



**Model Optimization and Tuning Phase Report** 

Wide Optimization and Tuning I have report		
Date	20 June 2024	
Team ID	739803	
Project Title	Predicting Permanent Magnet Resistance Of Electronic Motor Using Machine Learning.	
Maximum Marks	10 Marks	

**Model Optimization and Tuning Phase** 

performance. It includes	n and Tuning Phase involves refining machine learning models for peak is optimized model code, fine-tuning hyperparameters, comparing and justifying the final model selection for enhanced predictive accuracy
Final Model	Reasoning

Model	Tuned Hyperparameters	Optimal Values
Logistic regression, Decision tree regression, Randomforest regression		-
	cs Comparison Report (2 Marks):	

a Veranda Enterprise	
Logistic regression, Decision tree regression,Randomforest regression	-

**Final Model Selection Justification (2 Marks):** 

Model	Optimized Metric

Random Forest regression	The Random Forest Regression model was selected for its superior performance, exhibiting high accuracy. Its ability to handle complex relationships, minimize over fitting, and optimize predictive accuracy aligns with project objectives, justifying its selection as the final model.
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